Safety Data Sheet: CHEM-AQUA 87630

Supercedes Date 09/15/2010 **Issuing Date** 07/28/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 87630
Recommended use Waste Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC

BOX 152170
IRVING, TEXAS 75015

Product Code 0C66
Chemical nature Polymer suspension
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Red **Physical State** Liquid **Odor** Rotten egg-like

GHS
Classification

Physical Hazards

Substances/mixtures corrosive to metal	Category 1

Health Hazard

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Reproductive Toxicity	Category 2
Carcinogenicity	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H314 - Causes severe skin burns and eye damage
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure
H361 - Suspected of damaging fertility or the unborn child
H351 - Suspected of causing cancer
H290 - May be corrosive to metals

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe mist
P271 - Use in a well-ventilated area.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P332 + P313 - If skin irritation occurs, get medical attention.
P363 - Wash contaminated clothing before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P406 - Store in a corrosion-resistant container.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P390 - Absorb spillage to prevent damage
P501 - Dispose of contents and container in accordance with applicable regulations.

30 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Polyethyleneimine dithiocarbamate	189326-02-1	15-40
Carbon disulfide	75-15-0	0.1-1

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe mist.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to physician The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C **Method** Not applicable

Flammability Limits in Air % Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Contact with metals may evolve flammable hydrogen gas. Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA **Health** 3 **Flammability** 1 **Instability** 0

HMIS **Health** 3 **Flammability** 1 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe mist.

Storage Store in original container. Metal containers must be lined. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 120 °F / 49 °C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Carbon disulfide	TWA: 1 ppm Skin	TWA: 20 ppm Ceiling: 30 ppm	500 ppm STEL 10 ppm STEL 30 mg/m^3 TWA: 1 ppm TWA: 3 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Slight viscous
Color	Red	**Odor**	Rotten egg-like
Odor Threshold	Not applicable	**Appearance**	Transparent - Hazy
pH	11.5	**Specific Gravity**	1.15
Evaporation Rate	<1 (Butyl acetate=1)	**Percent Volatile (Volume)**	>70
VOC Content (%)	0.5	**VOC Content (g/L)**	5.8
Vapor Pressure	<24 mmHg @ 70°F	**Vapor Density**	<1 (Air = 1.0)
Solubility	Completely miscible	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	> 212 °F / 100 °C	**Flammability (solid, gas)**	No data available
Flash Point	> 201 °F / > 94 °C	**Method**	Not applicable
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Hydrogen, by reaction with metals.	**Upper** 75 **Lower** 4	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong oxidizing agents, Strong acids.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen, by reaction with metals.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Inhalation, Skin Absorption, Ingestion.
Acute Effects	
Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns. May be absorbed through the skin in harmful amounts.
Inhalation	Harmful by inhalation. Causes burns. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May be fatal if inhaled in large quantities.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. May be fatal if swallowed.
Chronic Toxicity	Inhaled corrosive substances can lead to a toxic edema of the lungs. Chronic exposure damages the brain and the central nervous system. Causes adverse cardiovascular effects. Contains a known or suspected reproductive toxin. Contains a known or suspected carcinogen.
Target Organ Effects	Peripheral Nervous System (PNS), Central nervous system, Reproductive System, Cardiovascular system, Eyes, Skin.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders, Liver disorders, Kidney disorders, Neurological disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Carbon disulfide	= 3188 mg/kg (Rat)	no data available	= 25 g/m^3 (Rat) 2 h	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects

Carbon disulfide	no data available	no data available	Yes	no data available	CNS,PNS,CVS,eyes,kidn system

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Carbon disulfide	not applicable	Group 2A	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information — Product Information

Toxicity to algae	Toxicity to fish	Daphnia magna (Water flea)
LC50/Scenedesmus subspicatus/72 hours > 100 mg/L (OECD 201)	LC50/96 hours > 100 mg/L (OECD 203)	LC50/Daphnia m./48 hours > 100 mg/L (OECD 202)

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Carbon disulfide	EC50 = 21 mg/L Chlorella pyrenoidosa 96 h	LC50 3 - 5.8 mg/L Poecilia reticulata 96 h LC50 = 4 mg/L Poecilia reticulata 96 h	EC50 = 260 mg/L 15 min	EC50 2.1 mg/L Daphnia magna 48 h	N/A

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
UN-No UN3267
Packing Group II
Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Polyethyleneimine dithiocarbamate),8, PG II

TDG

Hazard Class 8
UN-No UN3267
Packing Group II

ICAO

UN-No UN3267
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
Packing Group II
Shipping Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Polyethyleneimine dithiocarbamate),8, PG II

IATA

UN-No UN3267
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
Packing Group II
Shipping Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Polyethyleneimine dithiocarbamate),8, PG II

IMDG/IMO

Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
UN-No UN3267
Packing Group II
Shipping Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Polyethyleneimine dithiocarbamate),8, PG II

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Carbon disulfide	75-15-0	0.1-1	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Carbon disulfide	100 lb	10000 lb TPQ 100 lb

16. OTHER INFORMATION

Prepared By	Sarah Williamson
Supercedes Date	09/15/2010
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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